

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

23838

7590

08/26/2003

KENYON & KENYON 1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005 EXAMINER EXAMINER

MERCADO, JULIAN A

ART UNIT

CLASS-SUBCLASS

1745

429-034000

DATE MAILED: 08/26/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665.899	09/20/2000	Masayoshi Iwase	10517/74	6300

TITLE OF INVENTION: FUEL CELL AND SEPARATOR FOR THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	11/26/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1,313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 08/26/2003 KENYON & KENYON 1500 K STREET, N.W., SUITE 700 Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. **WASHINGTON, DC 20005** (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/665,899 09/20/2000 Masayoshi Iwase 10517/74 6300 TITLE OF INVENTION: FUEL CELL AND SEPARATOR FOR THE SAME APPLN. TYPE **PUBLICATION FEE** SMALL ENTITY ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional \$1300 \$1300 11/26/2003 **EXAMINER** ART UNIT CLASS-SUBCLASS MERCADO, JULIAN A 1745 429-034000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual a corporation or other private group entity government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this form). ☐ Advance Order - # of Copies Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or oth interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents. Alexandria, Virginia 22313-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Authorized Signature)



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09/665,899		09/20/2000	Masayoshi Iwase	10517/74	6300	
23838	7590	08/26/2003		EXAM	INER	
KENYON & KENYON 1500 K STREET, N.W., SUITE 700				MERCADO, JULIAN A		
WASHINGTON				ART UNIT	PAPER NUMBER	
				1745		
			DATE MAILED: 08/26/2003			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 291 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 291 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,899		09/20/2000	Masayoshi Iwase	10517/74	6300
23838	7590	08/26/2003		EXAM	INER
KENYON & I	KENYON	1		MERCADO,	JULIAN A
1500 K STREE	T, N.W., S	SUITE 700			
WASHINGTON	N, DC 200	005		ART UNIT	PAPER NUMBER
				1745	
				DATE MAILED: 08/26/2003	1

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By other than a small entity.....\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	•	*	A.S-13
	Application No.	Applicant(s)	, 1- ()
	09/665,899	IWASE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Julian A. Mercado	1745	
The MAILING DATE of this communication appears to the mailed provided by the applicant. See 37 CFR 1.3 1. All claims being allowable, PROSECUTION ON THE MERITS of the Office or upon petition by the applicant. See 37 CFR 1.3 1. This communication is responsive to 6-17-03. 2. The allowed claim(s) is/are 1.3-5.7.8.10-12.14-16.18.20 3. The drawings filed on 1/2/00 are accepted by the Examusum Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have a complete the priority	ppears on the cover shall S (OR REMAINS) CLC B5) or other appropriate RIGHTS. This applicated and MPEP 1308. 2.22,24,26 and 28-31. Siner. Sunder 35 U.S.C. § 119(and and and and and and and and and and	neet with the correspondence ac DSED in this application. If not incommunication will be mailed in dition is subject to withdrawal from its a)-(d) or (f).	luded ue course. THIS ssue at the initiative
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority (a) The translation of the foreign language provisions 6. Acknowledgment is made of a claim for domestic priority Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT	al application has been or yunder 35 U.S.C. §§ 12	received. 0 and/or 121. to file a reply complying with the re	equirements noted
oelow. Failure to timely comply will result in ABANDONMENT 7. A SUBSTITUTE OATH OR DECLARATION must be sun NFORMAL PATENT APPLICATION (PTO-152) which gives re	ubmitted. Note the attacl	ned EXAMINER'S AMENDMENT	
B. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Drafts, 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawir (c) including changes required by the attached Examinum Identifying indicia such as the application number (see 37 CF) each sheet.	ng correction filed	_, which has been approved by the iment or in the Office action of Pap	oer No
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOR 	posit of BIOLOGICAL R THE DEPOSIT OF BI	MATERIAL must be submitte OLOGICAL MATERIAL	d. Note the
Attachment(s)			
1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material) 4□ II o 6□ E	Notice of Informal Patent Application Interview Summary (PTO-413), Patexaminer's Amendment/Comment Examiner's Statement of Reasons Other	per No
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Application/Control Number: 09/665,899

Art Unit: 1745

DETAILED ACTION

Remarks

This Office Action is responsive to applicant's amendment filed June 17, 2003.

Claims 1, 3-5, 7, 8, 10-12, 14-16, 18, 20, 22, 24, 26, and 28-31 are pending, of which claims 28-31 are newly submitted.

The rejection of claims 1, 4-5, 8, 11, 12, 15, 16, 20, 22, 24 and 26 under 35 U.S.C. 102(e) based on Kurita et al. has been withdrawn.

The rejection of claims 3, 7, 10, 14 and 18 under 35 U.S.C. 103(a) based on Kurita et al. and Tajima et al. has been withdrawn.

Allowable Subject Matter

Claims 1, 3-5, 7, 8, 10-12, 14-16, 18, 20, 22, 24, 26, and 28-31 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1 (first embodiment), the prior art of record and to the examiner's knowledge do not teach or render obvious at least to the skilled artisan the instant invention regarding the presently claimed separator having a gas supply inlet positioned so that the gas enters into a first plurality of regions in a direction parallel to a longitudinal axis of the first region. In comparison, the closest prior art to Kurita et al. teaches a gas supply inlet [12] entering region [16a] in a direction perpendicular to a longitudinal axis of the region.

Regarding independent claims 20, 24, 28 and 30 (second embodiment), these claims are allowed for the reasons set forth in a prior Office Action for dependent claims 21, 23, 25 and 27

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(now canceled), that is, the instant each of the plurality of regions being narrower in width than the width of its immediately upstream region.

As a matter of clarification, the examiner notes that new independent claims 28 and 30, in reciting the regions being "continuous across at least a portion of a length of each of the plurality of regions", is understood to be based on Figure 11 of the disclosed invention, wherein the projections along [S1] and [S2] are continuous across the portion of the length of the regions not already occupied by ribs [555] and [556] (respectively).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian A. Mercado whose telephone number is (703) 305-0511. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (703) 308-2383. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

A am